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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/550,942	11/23/2005	Chung-hak Lee	110989-0004	4080	
22429 7590 03/30/2010 LOWE HAUPTMAN HAM & BERNER, LLP 1700 DIAGONAL ROAD			EXAM	EXAMINER	
			FISHER, MICHAEL J		
SUITE 300 ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER		
			3689		
			MAIL DATE	DELIVERY MODE	
			03/30/2010	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Application No. Applicant(s) 10/550 042 LEE CHUNG-HAK

00" 4 " 0	10/330,942 ELL, CHONG-HAR					
Office Action Summary	Examiner	Art Unit				
	MICHAEL J. FISHER	3689				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extension of time may be available under the provision of 37 CFR 1.1 after SSI (6) MONTHS from the mailing date of the communication. If NO period for reply is specified above, the maximum statutory period to Failure to reply within the soft or extended period for reply will. by statute, Any rophy reconset by the Office later than three months after the mailing carried patient term doubsement. See 37 CFR 1.70(4)).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. sely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL. 2b) ☐ This	action is non-final.					
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
·						
4) Claim(s) 1-32 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-32</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
		(4) (5)				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal P					
Information Disclosure Statement(s) (FTO/SB/00)     Paper No(s) Mail Date	6) Other:	atent Application				

Application/Control Number: 10/550,942

Art Unit: 3689

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3,6,8-11,14,16-23,25 and 26 are rejected under 35 U.S.C. 102(e) as being anticipated by US PAT 6,577,946 to Myr.

As to claim 1, Myr discloses a method for obtaining traffic data using billing information of cellphones (user information is billing information), that receives call data (fig 1), extracts unique data (position data, fig 1), the system tracks position and speed (fig 4) and determines average speed (fig 16).

As to claim 19, the handoff would be to the next receiver.

As to claims 2, 20, the system is used on highways (col 9, lines 13-14).

As to claims 3,23, the terminals have identification numbers (Road Intersection Node, col 7, lines 11-18).

As to claim 6, the data is extracted on a section by section basis and for all sections (fig 12).

As to claim 8, there is at least one sample object (various "CP"s, as seen in fig 12).

Application/Control Number: 10/550,942 Page 3

Art Unit: 3689

As to claims 9,10,11, tracking lower priority objects is terminated (fig 5), the samples are clustered (fig 11).

As to claim 14, Myr discloses reference times added to the time (top row in fig 16).

As to claims 16,17,22, the vehicles are not tracked when the signal is not received by one in the system, thereby meeting the limitations as claimed.

As to claim 18, the base stations are for their area, thereby meeting the limitations as claimed.

As to claims 21,25,26, the system would terminate when no signal is received, thereby meeting the limitations as claimed.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.

Application/Control Number: 10/550,942

Art Unit: 3689

 Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 4,5,7,12,13,15,24 and 27-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Myr.

As to claims 29, the reference value and time would be a matter of obvious engineering design choice and would not render the instant invention patentably distinct.

As to claim 4, Myr does not teach the specific time interval, however, it would have been obvious to one of ordinary skill in the art to use 30 second intervals as a matter of obvious, engineering design choice.

As to claim 5, it would be obvious to send a wake-up signal to ensure the system is working properly.

As to claims 7,27, the number of stations would be a matter of obvious, engineering design choice and would not render the instant invention patentably distinct.

As to claims 12,24, Myr does not teach exactly how speed information is determined, however, dividing distance traveled by time unit is how speed is determined (miles/hour), therefore, it would have been obvious to use this formula as it is old and well known to work

As to claim 13, Myr does not teach showing the maximum speed when no vehicles are tracked on a road, however, it would be obvious to one of ordinary skill in the art to do so as, without vehicles on the road, there could be no congestion and

Application/Control Number: 10/550.942

Art Unit: 3689

therefore, any vehicles traveling down a deserted road could go the maximum speed if so desired.

As to claim 28, the base stations are for their area, thereby meeting the limitations as claimed

As to claims 15 and 29, the reference time would be a matter of obvious engineering design choice and would not render the instant invention patentably distinct.

As to claim 30, the system is used on highways (col 9, lines 13-14).

As to claim 31, the base stations are for their area, thereby meeting the limitations as claimed.

As to claim 32, Myr does not teach the specific time interval, however, it would have been obvious to one of ordinary skill in the art to use 5 minute intervals as a matter of obvious, engineering design choice.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL J. FISHER whose telephone number is (571)272-6804. The examiner can normally be reached on Mon.-Fri. 7:30am-5:00pm alt Fri. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Janice Mooneyham can be reached on 571-272-6805. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/550,942 Page 6

Art Unit: 3689

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael J Fisher/ Examiner, Art Unit 3689

MF 3/29/10